

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	6329	((aperture or pin? hole or opening or spac\$3) and (copper or cu) and (indium or gallium or ga)).clm.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/30 16:51
L2	2748	((aperture or pin? hole or opening or spac\$3) and (copper or cu) and (indium or gallium or ga)).clm.	US-PGPUB	ADJ	ON	2009/04/30 16:51
L3	574	((aperture or pin? hole or opening or spac\$3) and (copper or cu) and (indium or gallium or ga) and (selenium or sulfur or se or s)).clm.	US-PGPUB	ADJ	ON	2009/04/30 16:52
L4	73	((aperture or pin? hole or opening or spac\$3) and (copper or cu) and (indium or gallium or ga) and (selenium or sulfur or se or s) and (solar or photovoltaic)).clm.	US-PGPUB	ADJ	ON	2009/04/30 16:52
L5	0	((aperture or pin? hole) and (copper or cu) and (indium or gallium or ga) and (selenium or sulfur or se or s) and (solar or photovoltaic)).clm.	US-PGPUB	ADJ	ON	2009/04/30 16:53
L6	33	((aperture or pin? hole) and (copper or cu) and (indium or gallium or ga) and (selenium or sulfur or se or s)).clm.	US-PGPUB	ADJ	ON	2009/04/30 16:53

L7	13	((aperture or pin? hole) and (copper or cu) and (indium or gallium or ga) and (selenium or sulfur or se or s)).clm.	US-PGPUB	ADJ	OFF	2009/04/30 16:53
L8	0	((aperture or pin? hole) and (copper or cu) and (indium or gallium or ga) and (selenium or sulfur or se or s) and (window or buffer or zno or cds)).clm.	US-PGPUB	ADJ	OFF	2009/04/30 16:54
L9	2474	((aperture or pin? hole) and (window or buffer or zno or cds)).clm.	US-PGPUB	ADJ	OFF	2009/04/30 16:55
L10	37	((aperture or pin? hole) and (window or buffer or zno or cds) and (solar or photovoltaic)).clm.	US-PGPUB	ADJ	OFF	2009/04/30 16:55
S1	3	("5981868" "6023020" "6259016").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/23 19:56
S2	29	S1 or "5948176" or "6023020"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/23 19:57
S3	26	S2 and window	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/23 19:58
S4	5	S2 and (window with n near type)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/23 19:58
S5	90	(cis or cigs) and (window with n near type) and (transparent with conductive)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/23 20:05
S6	24	(cis or cigs) and (window with n near type) and (transparent with conductive with n near type)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/23 20:05
S7	1	"10564116"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/23 20:13
S8	8413	136/243-265.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/24 11:38
S9	892	S8 and aperture	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/24 11:38

S10	78	S9 and (cis or cigs)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/24 11:39
S11	41	S10 and window	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/24 11:39
S12	23	S8 and ((hole or gap or slit) with window) and (cis or cigs)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/24 11:42
S13	3	S8 and ((hole or gap or slit) with window) and (cis or cigs) not band gap	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/24 11:43
S14	2	((hole or gap or slit) with window) and (cis or cigs) not band gap	FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/04/24 11:44
S15	6	((hole or aperture or slit) with window) and (cis or cigs)	FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/04/24 11:44
S16	156	((hole or aperture or slit) with window) and (solar or photovoltaic)	FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/04/24 11:45
S17	38433	(hole or aperture or slit) and (solar or photovoltaic)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/24 11:58
S18	32621	(hole or aperture or slit) and (solar or photovoltaic) not (electron near1 hole)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/24 11:58
S19	7177	((hole or aperture or slit) with (layer or film)) and (solar or photovoltaic) not (electron near1 hole)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/24 11:59
S20	435	((hole or aperture or slit) with (layer or film)) and (solar or photovoltaic) not (electron near1 hole) and (cis or cigs)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/24 11:59
S21	6	((hole or aperture or slit) with (zno)) and (solar or photovoltaic) not (electron near1 hole) and (cis or cigs)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/24 12:02

S22	44	((hole or aperture or slit) with (window)) and (solar or photovoltaic) not (electron near1 hole) and (cis or cigs)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/24 12:03
S23	5572	((hole or aperture or slit or groove or trench)) and (solar or photovoltaic) and ((uneven or textur\$3 or continuous) with surface)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/24 12:05
S24	2705	((hole or aperture or slit or groove or trench)) and (solar or photovoltaic) and ((uneven or textur\$3 or (dis or "not") continuous) with surface)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/24 12:08
S25	2638	((hole or aperture or slit or groove or trench)) and (solar or photovoltaic) and ((uneven or textur\$3 or (dis or "not") continuous) with surface)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/24 12:08
S26	1955	((hole or aperture or slit or groove or trench)) and (solar or photovoltaic) and ((uneven or textured or (dis or "not") continuous) with surface)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/24 12:08
S27	844	((hole or aperture or slit or groove or trench) with (layer or film)) and (solar or photovoltaic) and ((uneven or textured or (dis or "not") continuous) with surface)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/24 12:08
S28	270	S8 and S27	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/24 12:08
S29	1	"10564116"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/24 12:45

S30	4222	((hole or aperture or slit or groove or trench or cut or break) with (buffer or window or ito or zno or (transparent near1 oxide))) and (solar or photovoltaic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/24 12:51
S31	3772	((hole or aperture or slit or groove or trench or cut or break) with (buffer or window or ito or zno or (transparent near1 oxide))) and (solar or photovoltaic)	US-PGPUB; USPAT	ADJ	ON	2009/04/24 12:52
S32	2165	((aperture or slit or groove or trench or cut or break) with (buffer or window or ito or zno or (transparent near1 oxide))) and (solar or photovoltaic)	US-PGPUB; USPAT	ADJ	ON	2009/04/24 12:52
S33	1931	((aperture or slit or cut or break) with (buffer or window or ito or zno or (transparent near1 oxide))) and (solar or photovoltaic)	US-PGPUB; USPAT	ADJ	ON	2009/04/24 12:52
S34	1655	((aperture or slit or cut or break) with (buffer or window)) and (solar or photovoltaic)	US-PGPUB; USPAT	ADJ	ON	2009/04/24 12:52
S35	650	((aperture or slit or cut or break) near2 (buffer or window)) and (solar or photovoltaic)	US-PGPUB; USPAT	ADJ	ON	2009/04/24 12:53
S36	8	((aperture or slit or cut or break) near2 (buffer or window) (layer or film)) and (solar or photovoltaic)	US-PGPUB; USPAT	ADJ	ON	2009/04/24 12:53

S37	1	((aperture or slit or cut or break) with (n near type) with (buffer or window) (layer or film)) and (solar or photovoltaic)	US-PGPUB; USPAT	ADJ	ON	2009/04/24 12:54
S38	20	((aperture or slit or cut or break) with (n near type) with (buffer or window)) and (solar or photovoltaic)	US-PGPUB; USPAT	ADJ	ON	2009/04/24 12:54
S39	1	((aperture or slit or cut or break) with (n near type) with (buffer or window) with transparent conductive) and (solar or photovoltaic)	US-PGPUB; USPAT	ADJ	ON	2009/04/24 13:06
S40	5	((aperture or slit or cut or break) with (buffer or window) with transparent conductive) and (solar or photovoltaic)	US-PGPUB; USPAT	ADJ	ON	2009/04/24 13:06
S41	1774	((aperture or slit or cut or break) with (buffer or window or transparent conductive)) and (solar or photovoltaic)	US-PGPUB; USPAT	ADJ	ON	2009/04/24 13:07
S42	41	((aperture or slit or cut or break) with (buffer or window or transparent conductive)) and (solar or photovoltaic) and (cis or cigs)	US-PGPUB; USPAT	ADJ	ON	2009/04/24 13:09
S43	1655	((aperture or slit or cut or break) with (buffer or window)) and (solar or photovoltaic)	US-PGPUB; USPAT	ADJ	ON	2009/04/24 13:11

S44	650	((aperture or slit or cut or break) near2 (buffer or window)) and (solar or photovoltaic)	US-PGPUB; USPAT	ADJ	ON	2009/04/24 13:11
S45	2	((aperture or slit or cut or break) near2 (buffer or window)) same transparent conductive and (solar or photovoltaic)	US-PGPUB; USPAT	ADJ	ON	2009/04/24 13:12
S46	1	((aperture or slit or cut or break) near2 (buffer or window)) same (ito or zno) and (solar or photovoltaic)	US-PGPUB; USPAT	ADJ	ON	2009/04/24 13:13
S47	83	((aperture or slit or cut or break) near2 (buffer or window)) same (electrode or contact) and (solar or photovoltaic)	US-PGPUB; USPAT	ADJ	ON	2009/04/24 13:13
S48	5	("4612411" "5078804" "5479939").PN. OR ("6023020").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/24 13:21
S49	25	"5948176"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/24 13:24
S50	1490	(aperture or pin hole) and (solar or photovoltaic)	FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/04/24 14:40
S51	106	(aperture or pin hole) and (solar or photovoltaic) and (buffer or window or zno)	FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/04/24 14:41
S52	184	(aperture or pin hole or cut or slit or crack or break or groove) with (buffer or window or zno or cds) and (solar or photovoltaic)	FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/04/24 15:04

S53	73	(aperture or pin hole or cut or slit or crack or break or groove) near3 (buffer or window or zno or cds) and (solar or photovoltaic)	FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/04/24 15:05
S54	318909	takahashi.in.	FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/04/24 15:09
S55	0	yasuhito near1 tahahashi.in.	FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/04/24 15:09
S56	235	yasuhito near1 takahashi.in.	FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/04/24 15:09
S57	0	yukiyoshi near1 onu. in.	FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/04/24 15:09
S58	237	yukiyoshi near1 ono. in.	FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/04/24 15:10
S59	17	yukiyoshi near1 ono. in.	US-PGPUB; USPAT	ADJ	ON	2009/04/24 15:10
S60	55	yasuhito near1 takahashi.in.	US-PGPUB; USPAT	ADJ	ON	2009/04/24 15:10
S61	17	S59 or S60 and (solar or photovoltaic)	US-PGPUB; USPAT	ADJ	ON	2009/04/24 15:10
S62	769	(leak current or shunt resistance) with (aperture or pin hole or cut or break or slit or crack or groove or dent)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/24 15:26
S63	15	(leak current or shunt resistance) with (aperture or pin hole or cut or break or slit or crack or groove or dent) with (buffer or window or zno)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/24 15:27
S64	392	(gap or space or opening) near2 zno	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/24 17:08
S65	26	(space or opening) near2 zno	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/24 17:08
S66	176	(gap not band gap) near2 zno	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/24 17:13
S67	17	S66 and (solar or photovoltaic)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/24 17:13

S68	90	(cis or cigs) and (window with n near type) and (transparent with conductive)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/24 17:18
S69	24	(cis or cigs) and (window with n near type) and (transparent with conductive with n near type)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/24 17:18
S70	66	S68 not S69	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/24 17:18
S71	1058	136/243-265.ccls. and (aperture or pin hole)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/24 17:23
S72	86	136/243-265.ccls. and (aperture or pin hole) and (cis or cigs)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/24 17:24
S73	988	136/243-265.ccls. and (aperture or pin hole)	US-PGPUB; USPAT	ADJ	ON	2009/04/24 17:32
S74	480	136/243-265.ccls. and (aperture or pin hole) and resistance	US-PGPUB; USPAT	ADJ	ON	2009/04/24 17:33
S75	35	136/243-265.ccls. and (aperture or pin hole) with (zno or buffer or tco or ito or cds)	US-PGPUB; USPAT	ADJ	ON	2009/04/24 17:33
S76	177274	(cigs or cis)	US-PGPUB; USPAT	ADJ	ON	2009/04/24 17:35
S77	1901	S76 and (solar or photovoltaic) (cell or module or panel or array)	US-PGPUB; USPAT	ADJ	ON	2009/04/24 17:35
S78	1952	S76 and (solar or photovoltaic) (cell or module or panel or array or device)	US-PGPUB; USPAT	ADJ	ON	2009/04/24 17:35
S79	126	S78 and textur\$3 with surface	US-PGPUB; USPAT	ADJ	ON	2009/04/24 17:36

S80	59010	(leak\$3 or resistance) and (pin hole or aperture or opening or spac\$3 or slit or slot or cut or crack) and (solar or photovoltaic or photoelectric)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/24 17:41
S81	600	(leak\$3 or resistance) and (pin hole or aperture or opening or spac\$3 or slit or slot or cut or crack) and (solar or photovoltaic or photoelectric)	EPO; JPO	ADJ	ON	2009/04/24 17:42
S82	0	(leak\$3 or resistance) and (pin hole or aperture or opening or spac\$3 or slit or slot or cut or crack) and (solar or photovoltaic or photoelectric) and (textur\$3 near1 surface)	EPO; JPO	ADJ	ON	2009/04/24 17:42
S83	1	(leak\$3 or resistance) and (pin hole or aperture or opening or spac\$3 or slit or slot or cut or crack) and (solar or photovoltaic or photoelectric) and (textur\$3)	EPO; JPO	ADJ	ON	2009/04/24 17:42
S84	30	(pin hole or aperture or opening or spac\$3 or slit or slot or cut or crack) and (solar or photovoltaic or photoelectric) and (textur\$3)	EPO; JPO	ADJ	ON	2009/04/24 17:43

S85	7028	(break or chasm or chink or cleftor crack or cut or eye or fissure or gash or interstice or opening or orifice or outles or passage or perforation or pinhole or puncture or slash or slit or slot or space or vent) and (solar or photovoltaic)	EPO; JPO	ADJ	ON	2009/04/24 17:55
S86	22	(break or chasm or chink or cleftor crack or cut or eye or fissure or gash or interstice or opening or orifice or outles or passage or perforation or pinhole or puncture or slash or slit or slot or space or vent) and (solar or photovoltaic) and textur\$3	EPO; JPO	ADJ	ON	2009/04/24 17:55
S87	12	(break or chasm or chink or cleftor crack or cut or eye or fissure or gash or interstice or opening or orifice or outles or passage or perforation or pinhole or puncture or slash or slit or slot or space or vent) and (solar or photovoltaic) and (cigs or cis)	EPO; JPO	ADJ	ON	2009/04/24 17:56

S88	3279	(break or chasm or chink or cleftor crack or cut or eye or fissure or gash or interstice or opening or orifice or outles or passage or perforation or pinhole or puncture or slash or slit or slot or space or vent) and (solar or photovoltaic) and (cigs or cis)	US-PGPUB; USPAT	ADJ	ON	2009/04/24 17:57
S89	10623	(break or chasm or chink or cleftor crack or cut or eye or fissure or gash or interstice or opening or orifice or outles or passage or perforation or pinhole or puncture or slash or slit or slot or space or vent) and (solar or photovoltaic) and (zno or cds)	US-PGPUB; USPAT	ADJ	ON	2009/04/24 17:58
S90	1373	S88 and S89	US-PGPUB; USPAT	ADJ	ON	2009/04/24 17:58
S91	1190	(break or chasm or chink or cleftor crack or cut or eye or fissure or gash or interstice or opening or orifice or outles or passage or perforation or pinhole or puncture or slash or slit or slot or space or vent) same (zno or cds) and (solar or photovoltaic)	US-PGPUB; USPAT	ADJ	ON	2009/04/24 17:58

S92	184	(break or chasm or chink or cleftor crack or cut or eye or fissure or gash or interstice or opening or orifice or outles or passage or perforation or pinhole or puncture or slash or slit or slot or space or vent) same (zno or cds) and (solar or photovoltaic) and (cis or cigs)	US-PGPUB; USPAT	ADJ	ON	2009/04/24 17:58
S93	81	(break or chasm or chink or cleftor crack or cut or eye or fissure or gash or interstice or opening or orifice or outles or passage or perforation or pinhole or puncture or slash or slit or slot or space or vent) with (zno or cds) and (solar or photovoltaic) and (cis or cigs)	US-PGPUB; USPAT	ADJ	ON	2009/04/24 17:59

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